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## IN THE CLAIMS:

1. (Currently Amended) A motion transmission apparatus leadscrew assembly comprising:

a leadscrew operable to rotate about a rotational axis to linearly drive a driven structure and comprising

an elongated shaft having an outer lateral surface; and a rotational axis, and

a leadscrew thread comprising a thread wire helically wrapped in spacedapart turns upon the <u>outer lateral</u> surface <u>of the shaft</u> and affixed to the elongated shaft; and

# a hollow-drive nut housing affixed to the driven structure and comprising

- a housing nut bore having an unthreaded bore for receiving the wire wrapped shaft and for enabling relative rotation between the shaft and the housing, the housing including wire receiving openings; inner surface with the leadscrew being inserted through the nut bore, the nut bore being sized such that the leadscrew may retate therein about the rotational axis, and
- a spring wire having first and second ends and an arc-shaped central portion, the first and second ends being received by and retained in the openings of the housing, pin affixed to the drive nut housing and the central portion for engaging and biasing the thread wire wrapped on the shaft-spanning across the nut bore to engage the leadscrew thread.
- 2. (Currently Amended) The apparatus assembly of claim 1, including wherein the leadscrew further comprises
- a spacer wire having a size smaller than that of the thread wire and helically interwrapped about the elongated shaft with the thread wire.
- 3. (Currently Amended) The <u>apparatus</u> assembly of claim 1, wherein the elongated shaft is cylindrical.
- 4. (Currently Amended) The <u>apparatus</u> assembly of claim 1, wherein thread wire has a circular cross section.

# 5-7 (Canceled)

- 8. (Currently Amended) The apparatus assembly of claim 1, wherein the drive nut housing includes has an access opening for enabling access to the spring wire and for enabling spring wire clearance therethrough, through which the spring pin is accessible from an exterior of the drive nut housing and providing clearance for the spring pin.
  - 9. (Currently Amended) The apparatus assembly of claim 1, further including a motor for that rotationally driving drives the wire wrapped shaft-leadscrew.
- The apparatus assembly of claim 1, including 10. (Currently Amended) wherein the driven structure includes a linear slide mechanism connected to which the drive nut housing is affixed so that the drive nut housing does not rotate.
- 11. (Currently Amended) The apparatus assembly of claim 10, further including an optical filter supported on the linear slide mechanism, the optical filter being movable by a rotation of the leadscrew.
- A motion transmission apparatus leadscrew 12. (Currently Amended) assembly comprising:

#### a leadserew comprising

- a cylindrical shaft having an outer lateral surface and a rotational axis; cylindrical axis coincident with a rotational axis of the leadscrew,
- a leadscrew thread-comprising a thread wire helically wrapped in spacedapart turns upon the outer lateral surface of the shaft-and affixed to the elongated shaft, the thread wire having a circular cross section; and
- a spacer wire having a size smaller than that of the thread wire and helically interwrapped about the elongated shaft with the spacer thread wire defining to define a spacing between the turns of the thread wire;
- a hollow drive nut housing comprising a nut bore having an unthreaded inner bore for receiving the wire wrapped shaft-surface with the leadscrew being inserted through the nut bore, the nut bore being sized to enable rotation of the wire wrapped shaft about the rotational axis, and the housing including wire receiving openings in side walls; such that the leadscrew may rotate therein about the rotational axis, and

a spring pin affixed to the drive nut housing and spanning across the nut bore to engage the thread wire leadscrew thread, wherein the spring pin has a first end, a central portion, and a second end, the first and second ends being received by and retained in the wall openings of the housing, and -wherein the drive nut housing has a first spring pin retainer therein and an oppositely disposed second-spring pin retainer therein, the first spring pin retainer receiving the first end of the spring pin therein and the second spring pin retainer receiving the second end of the spring pin therein, with the central portion of the spring pin extending spanning in an arc across an interior of the nut bore to engage and bias the thread wire to engage the leadscrew thread over a portion of a single turn; and

a linear slide mechanism to which the drive nut housing is affixed-so that the drive nut housing does not rotate.

## 13. (Canceled)

- 14. (Currently Amended) The <u>apparatus</u> assembly of claim 12, wherein the drive nut housing has an access opening for enabling access to therethrough, through which the spring pin is accessible from an exterior of the drive nut housing and for providing clearance for the spring pin.
- 15. (Currently Amended) The <u>apparatus</u> assembly of claim 12, further including a motor that rotationally drives the <u>wire wrapped shaft leadscrew</u> about the rotational axis.
  - 16. (Canceled)
- 17. (Currently Amended) The <u>apparatus</u> assembly of claim 12, further including an optical filter supported on the linear slide mechanism, the optical filter being movable by a rotation of the leadscrew.
- 18. (Currently Amended) The <u>apparatus</u> assembly of claim 1, wherein the spring pin contacts the <u>wrapped thread wire</u> leadserew thread over a portion of a single turn.
  - 19. (Currently Amended) The apparatus assembly of claim 1, wherein

the spring pin is <u>biased toward the thread wire preloaded</u> to ensure a positive contact between the spring pin and the <u>thread wire-leadscrew thread when a rotational direction of the leadscrew is reversed</u>.

20 - 21 (Canceled)